

UPDATED EAST Search History *CASE 10/624,929*

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|--------|---|---|------------------|---------|------------------|
| S57 | 1 | ("6137764").PN. | USPAT; USOCR | OR | OFF | 2006/02/24 15:53 |
| S58 | 1 | "20040017758" | US-PGPUB; USPAT | OR | OFF | 2006/02/24 17:23 |
| S59 | 1 | S58 and (reference adj medium) | US-PGPUB; USPAT | OR | OFF | 2006/02/24 15:53 |
| S60 | 214142 | (piezoelectric\$1 or (piezo adj electric\$1)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S61 | 4272 | S60 and "359"/\$.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S62 | 1678 | S60 and "369"/\$.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S63 | 2322 | S60 and "385"/\$.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S64 | 99 | S61 and S62 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S65 | 26442 | (piezoelectric\$1 or (piezo adj electric\$1)) with (substrate\$1) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |

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| S66 | 395 | ((piezoelectric\$1 or (piezo adj electric\$1)) adj effect\$1) with (substrate\$1) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S67 | 0 | ((piezoelectric\$1 or (piezo adj electric\$1)) adj effect\$1) with (substrate\$1) with (wavefront\$1 or (wave adj front\$1)) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S68 | 0 | ((piezoelectric\$1 or (piezo adj electric\$1))) with (substrate\$1) with (wavefront\$1 or (wave adj front\$1)) with chang\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S69 | 1642 | (piezoelectric\$1 or (piezo adj electric\$1)) same diffraction\$1 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S70 | 339 | S69 and "359"/\$.cccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S71 | 193 | S70 and @ad<="19991228" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 16:14 |
| S72 | 5 | ((piezoelectric\$1 or (piezo adj electric\$1)) with chang\$3 with thickness\$2) same diffraction\$1 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S73 | 1045 | ((piezoelectric\$1 or (piezo adj electric\$1)) with chang\$3 with thickness\$2) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |

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| S74 | 254 | ((piezoelectric\$1 or (piezo adj electric\$1)) with chang\$3 with thickness\$2 with voltage\$1) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S75 | 137 | S74 and @ad<="19991228" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S76 | 11 | S75 and "359"/\$.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S77 | 489 | S73 and @ad<="19991228" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S78 | 352 | S77 not S74 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S79 | 14 | S78 and "359"/\$.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S80 | 5 | ((piezoelectric\$1 or (piezo adj electric\$1)) with chang\$3 with thickness\$2) same diffraction\$1 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S81 | 137 | S74 and @ad<="19991228" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |

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| S82 | 5 | ((piezoelectric\$1 or (piezo adj electric\$1)) with chang\$3 with thickness\$2) same diffracti\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S83 | 2131 | (piezoelectric\$1 or (piezo adj electric\$1)) same diffracti\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S84 | 1068 | S83 and @ad<="19991228" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S85 | 204 | S84 and "359"/\$.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S86 | 11 | S85 not S71 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S87 | 2666 | (piezoelectric\$1 or (piezo adj electric\$1)) same grating\$1 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S88 | 1429 | S87 and @ad<="19991228" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S89 | 201 | S88 and "359"/\$.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |

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|-----|-------|---|---|----|-----|------------------|
| S90 | 3 | ((piezoelectric\$1 or (piezo adj electric\$1)) with chang\$3 with thickness\$2) same grating\$1 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S91 | 39469 | diffraction adj grating\$1 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S92 | 5699 | S91 and "359"/\$.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S93 | 3180 | S92 and @ad<="19991228" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S94 | 13029 | diffraction\$1 with reflection\$1 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S95 | 1910 | S94 and "359"/\$.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S96 | 937 | S95 and @ad<="19991228" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S97 | 864 | S95 and @ad<="19981228" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |

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|----------|------|---|---|----|-----|------------------|
| S98 | 73 | S96 not S97 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S99 | 2967 | S92 and @ad<="19981228" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S10 0 | 0 | diffraction\$1 and (jack adj dinh) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S10 1 | 355 | diffraction\$1 and (dinh) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S10 2 | 0 | diffraction\$1 and (jack adj dinh) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S10 3 | 34 | diffraction\$1 and (jack with dinh) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S10 4 | 3300 | (359/290,291,295,298,224,322, 572,573).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 16:14 |
| S10 5 | 4075 | (piezoelectric\$1 or (piezo adj electric\$1)) same (diffracti\$3 or grating\$1) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 16:19 |

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|----------|------|---|---|----|-----|------------------|
| S10 6 | 72 | S104 and S105 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S10 7 | 1 | ("6628599").PN. | USPAT; USOCR | OR | OFF | 2006/02/24 15:53 |
| S10 8 | 1 | "20040017758" | US-PGPUB | OR | OFF | 2006/02/24 15:53 |
| S10 9 | 1 | "20040017758" | US-PGPUB; USPAT | OR | OFF | 2006/02/24 15:53 |
| S11 0 | 1 | S109 and convexities | US-PGPUB; USPAT | OR | OFF | 2006/02/24 15:53 |
| S11 1 | 1 | S109 and (convexities with groove\$1) | US-PGPUB; USPAT | OR | OFF | 2006/02/24 15:53 |
| S11 2 | 7777 | (dielectric adj layer\$1) with reflect\$3 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S11 3 | 5 | (dielectric adj layer\$1) with reflect\$3 with ribbon\$1 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 15:53 |
| S11 4 | 1 | ("6335831").PN. | USPAT; USOCR | OR | OFF | 2006/02/24 15:53 |
| S11 5 | 0 | S114 and dielectric | USPAT | OR | OFF | 2006/02/24 15:53 |
| S11 6 | 3444 | (359/290,291,295,298,224,322, 572,573,260).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 16:18 |
| S11 7 | 179 | S116 and @pd>="20051101" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 16:16 |

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| S11 8 | 2266 | (359/245,279,323,315,579).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 16:47 |
| S11 9 | 38 | S105 and S118 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 16:19 |
| S12 0 | 83 | (359/579).CCLS. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | OFF | 2006/02/24 16:47 |

INTERFERENCE EAST Search History CASE 10/624929

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|--|----------|------------------|---------|------------------|
| L2 | 2 | ((piezoelectric\$1 or (piezo adj electric\$1)) with medium with first with second with area\$1).clm. | US-PGPUB | OR | OFF | 2006/02/24 17:26 |
| L4 | 2 | ((piezoelectric\$1 or (piezo adj electric\$1)) with medium with first with second with area\$1).clm. | US-PGPUB | OR | OFF | 2006/02/24 17:25 |

Search Results Case No. 10/626,929

| | | | |
|-------------------|----------|--|------------|
| US 6088148 A | USPAT | Micromagnetic light modulator | 359/280 |
| US 6181458 B1 | USPAT | Mechanical grating device with optical coating and method of making mechanical grating device with optical coating | 359/290 |
| US 6141139 A | USPAT | Method of making a bistable micromagnetic light modulator | 359/280 |
| US 6335831 B1 | USPAT | Multilevel mechanical grating device | 359/573 |
| US 6295157 B1 | USPAT | Thermally balanced acousto-optic modulator | 359/285 |
| US 5768454 A | USPAT | Method of and system for writing a bragg grating point by point by point in an optical fiber | 385/37 |
| US 5613022 A | USPAT | Diffraction display and method utilizing reflective or transmissive light yielding single pixel full color capability | 385/37 |
| US 4257016 A | USPAT | Piezo-optic, total internal reflection modulator | 359/305 |
| US 6211993 B1 | USPAT | Thin film ferroelectric light modulators | 359/260 |
| US 6628599 B2 | USPAT | Variable optical element, a pickup apparatus having the variable optical element, and an information recording and reproducing apparatus having the pickup apparatus | 369/112.01 |
| US 20040017758 A1 | US-PGPUB | Variable optical element, a pickup apparatus having the variable optical element, and an information recording and reproducing apparatus having the pickup apparatus | 369/112.02 |
| US 20010007549 A1 | US-PGPUB | Variable optical element, a pickup apparatus having the variable optical element, and an information recording and reproducing apparatus having the pickup apparatus | 369/112.05 |

NPL SEARCH (INSPSC) HISTOBT CASE 10/624929

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Inspec - 1969 to date (INZZ)

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Search history:

| No. | Database | Search term | Info added since | Results | |
|-----|----------|---|------------------|---------|-----------------------------|
| 1 | INZZ | (piezoelectric\$1 OR piezo ADJ electric\$1) WITH chang\$3 WITH thickness\$2 SAME diffraction\$1 | unrestricted | 0 | - |
| 2 | INZZ | (piezoelectric\$1 OR piezo ADJ electric\$1) SAME diffraction\$1 | unrestricted | 1735 | show titles |

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Information added since:

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or: none

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- ☒ Classification codes A: Physics, 8
- ☒ Classification codes A: Physics, 9